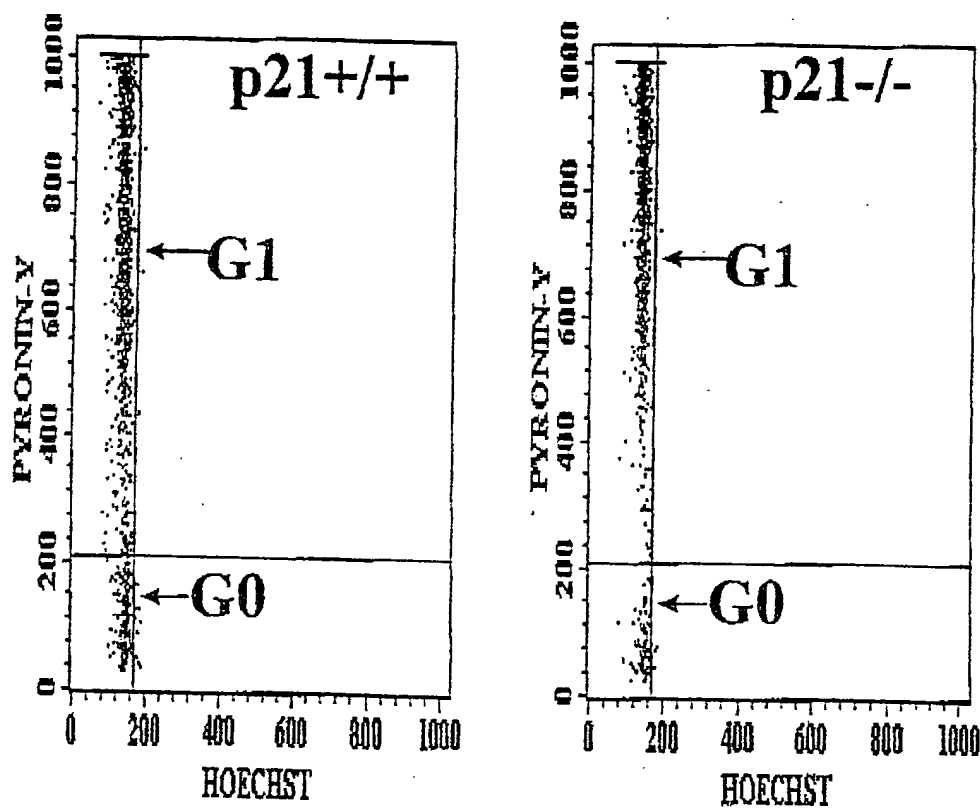
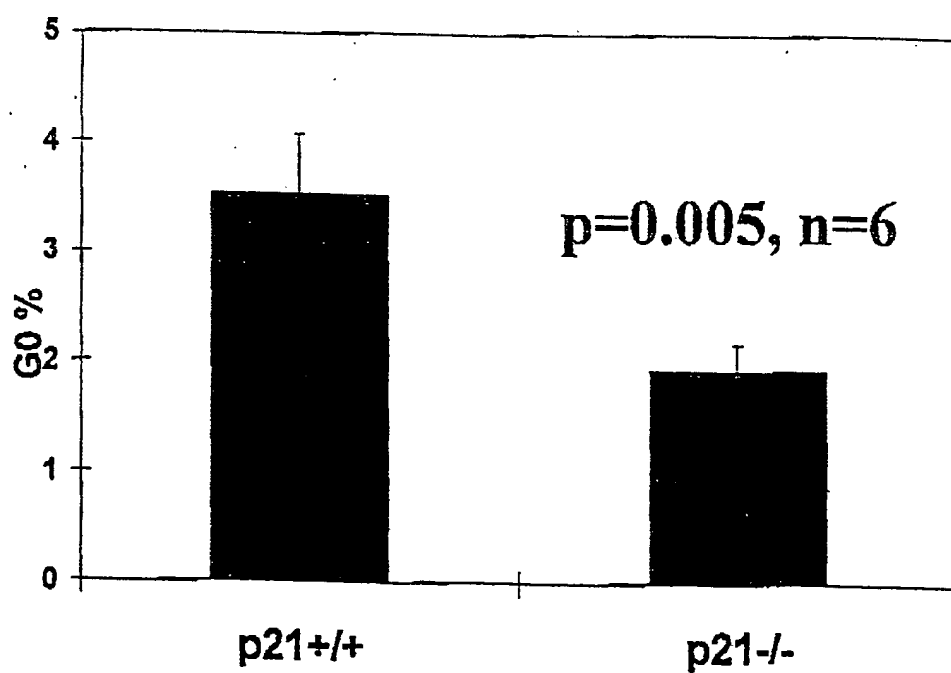


**a**

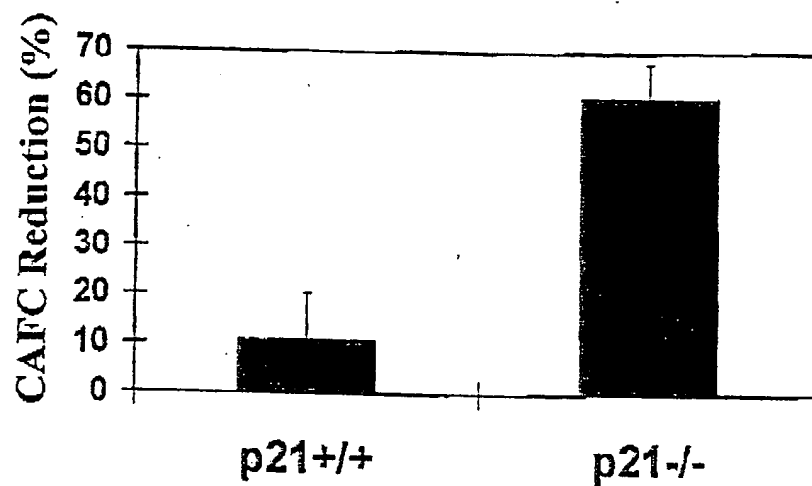


**b**

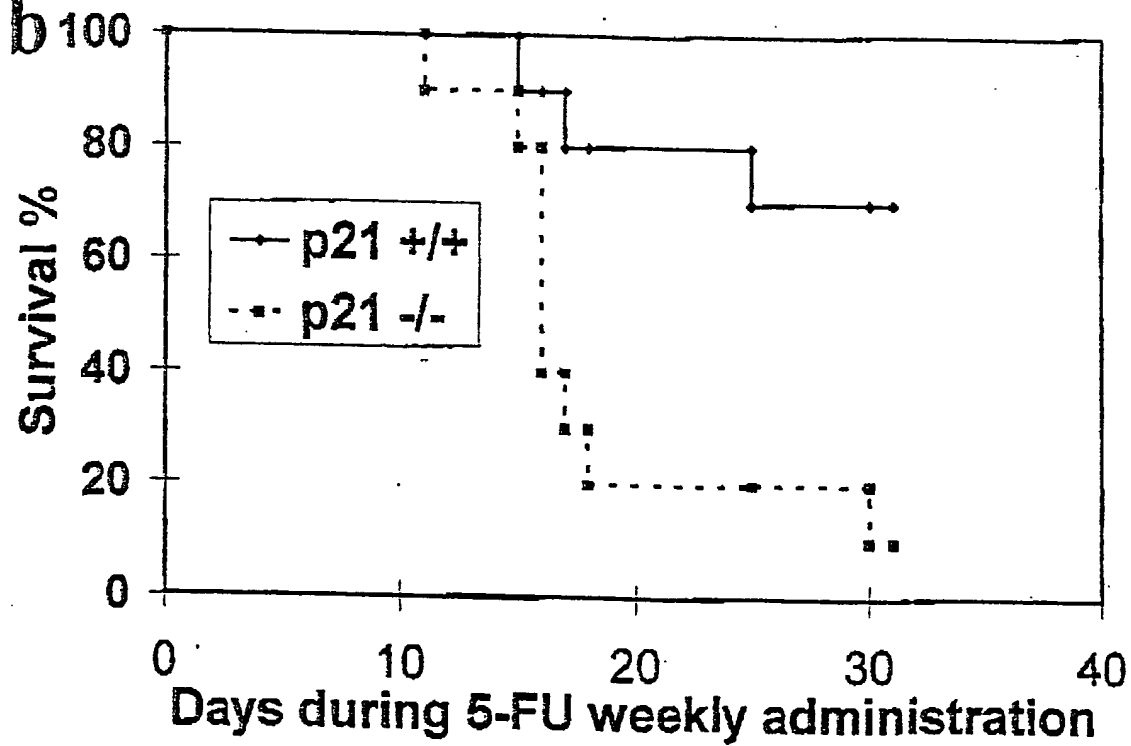


*Fig. 1*

**a**

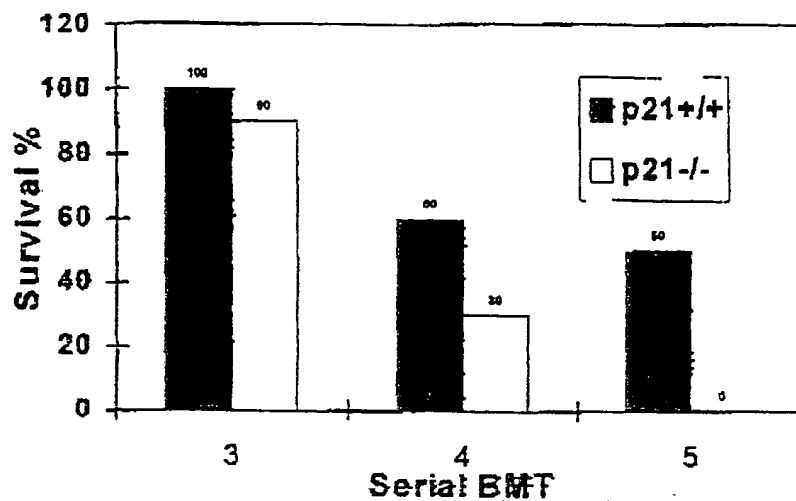


**b**

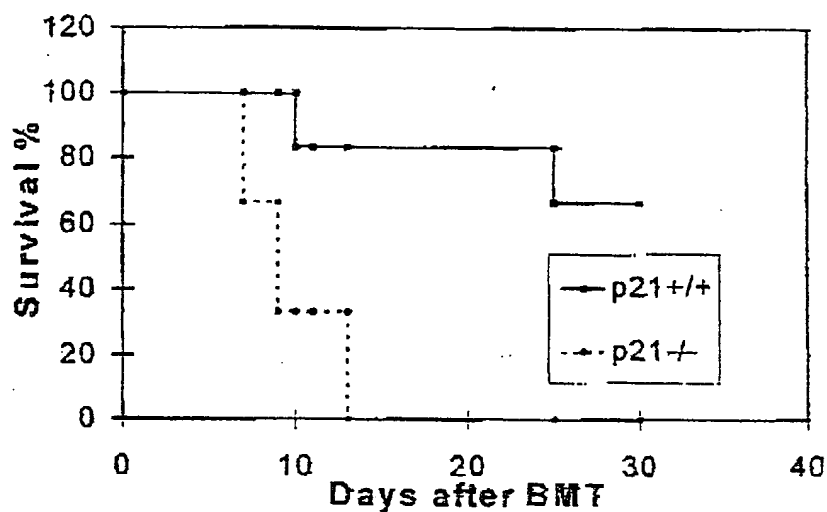


*Fig. 2*

**a**



**b**



**c**

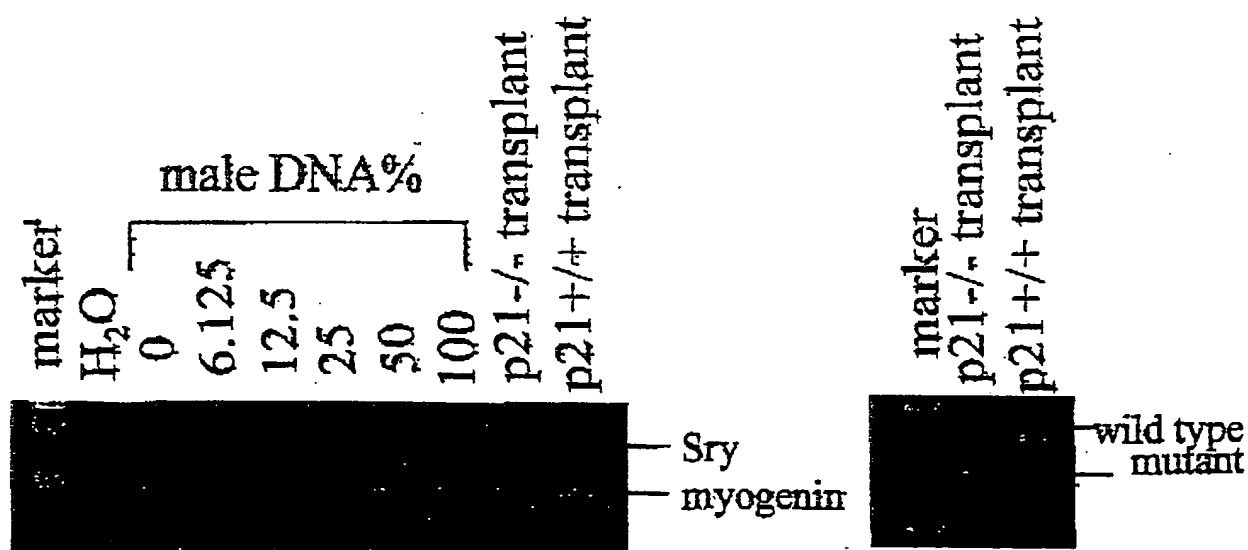
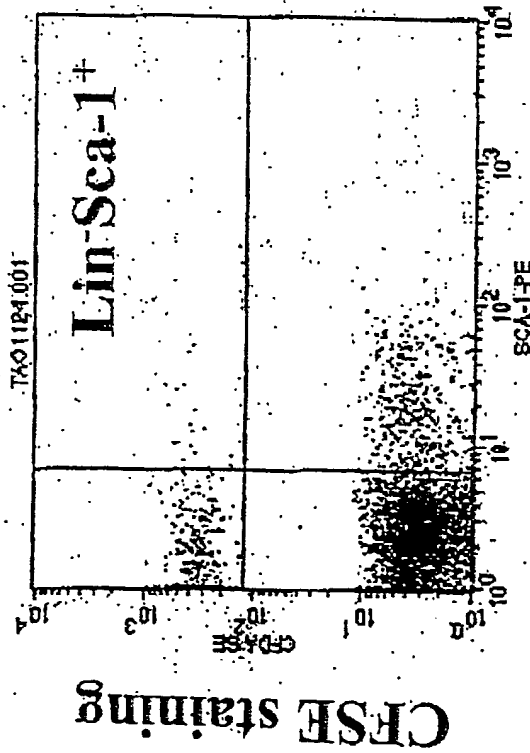


Fig. 3

p21+/+



p21-/-

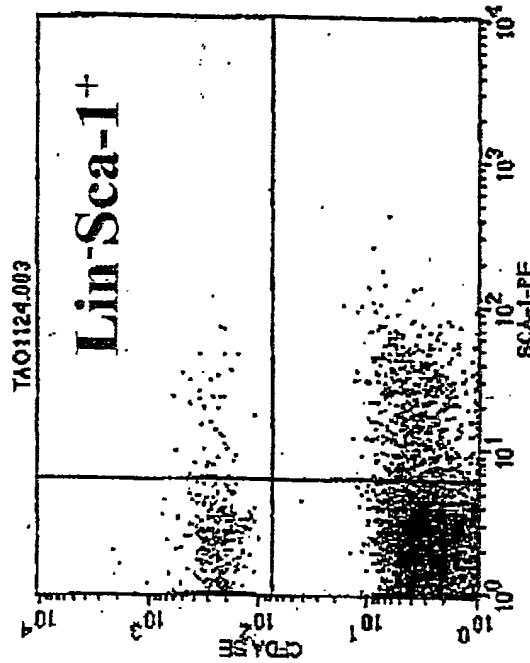


Fig. 4

Sca-1 staining

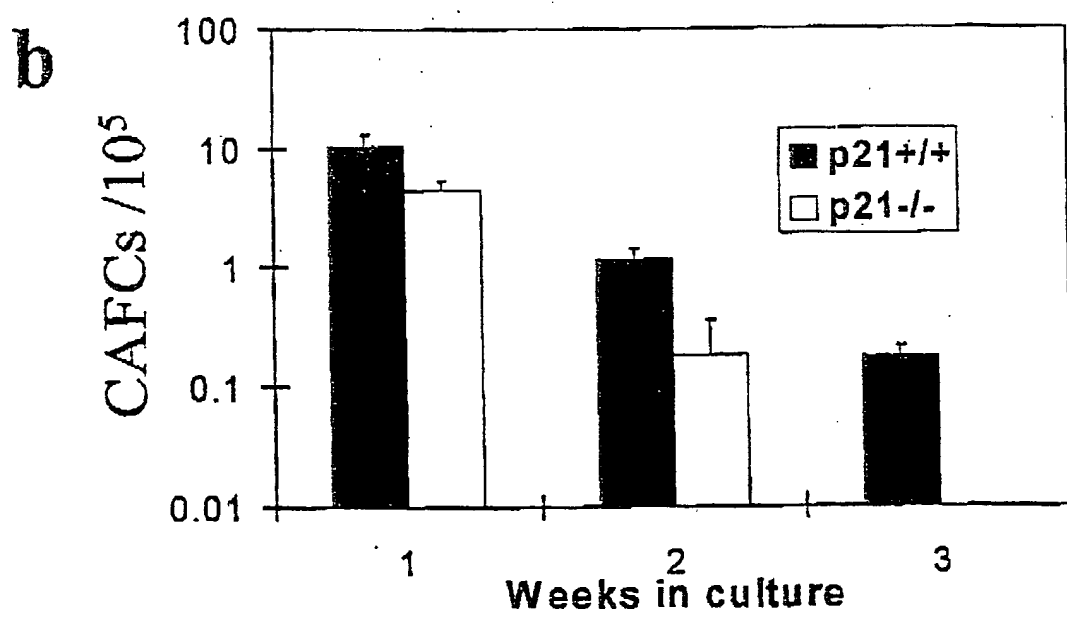
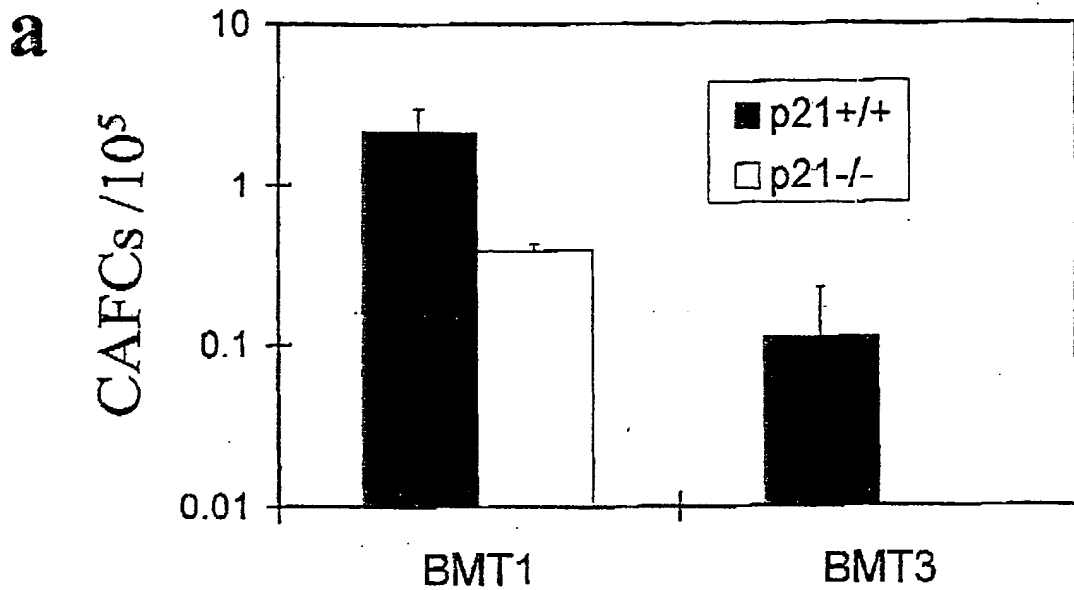


Fig. 5

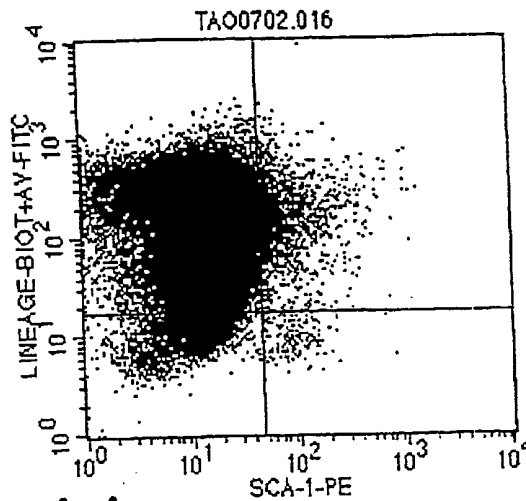
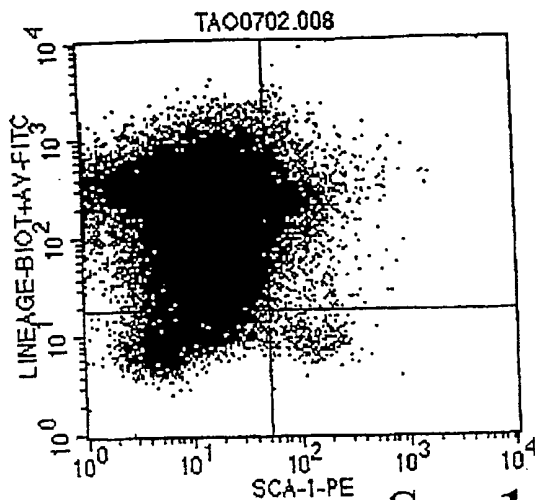


(a)

Lineage markers

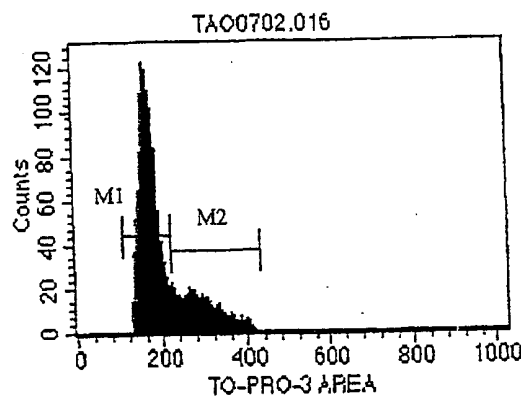
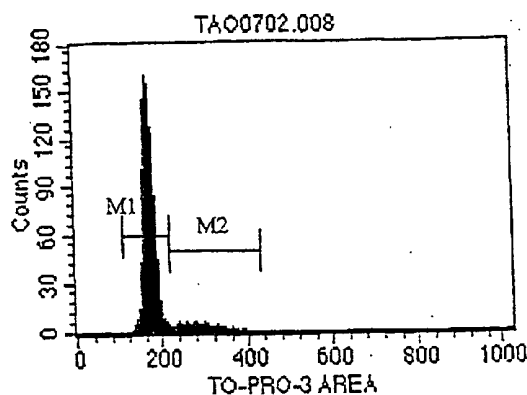
p27<sup>+/+</sup>

p27<sup>-/-</sup>

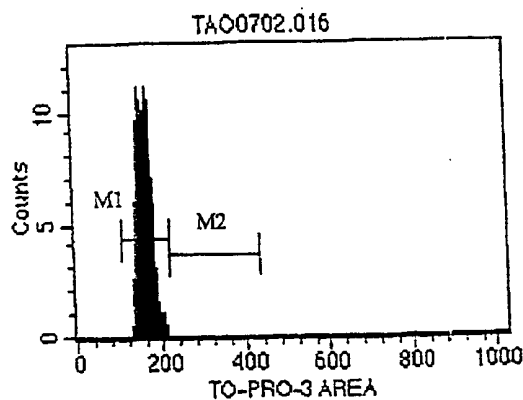
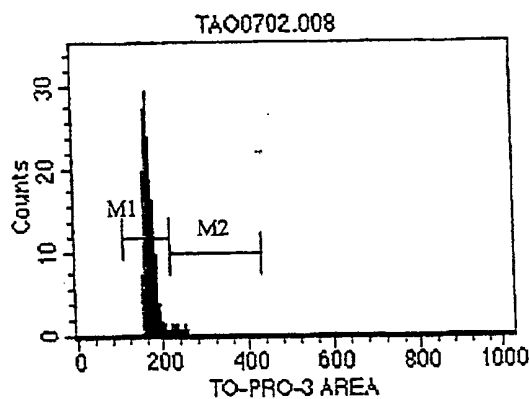


Sca-1 staining →

Sca-1+  
Lin+



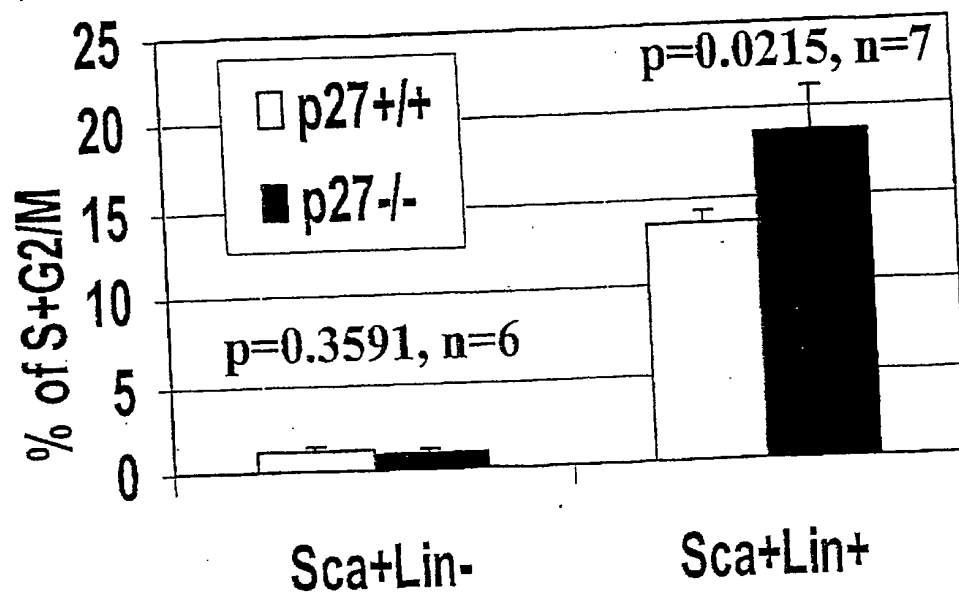
Sca-1+  
Lin-



To-pro-3 staining →

Figure  
7

(b)



(c)

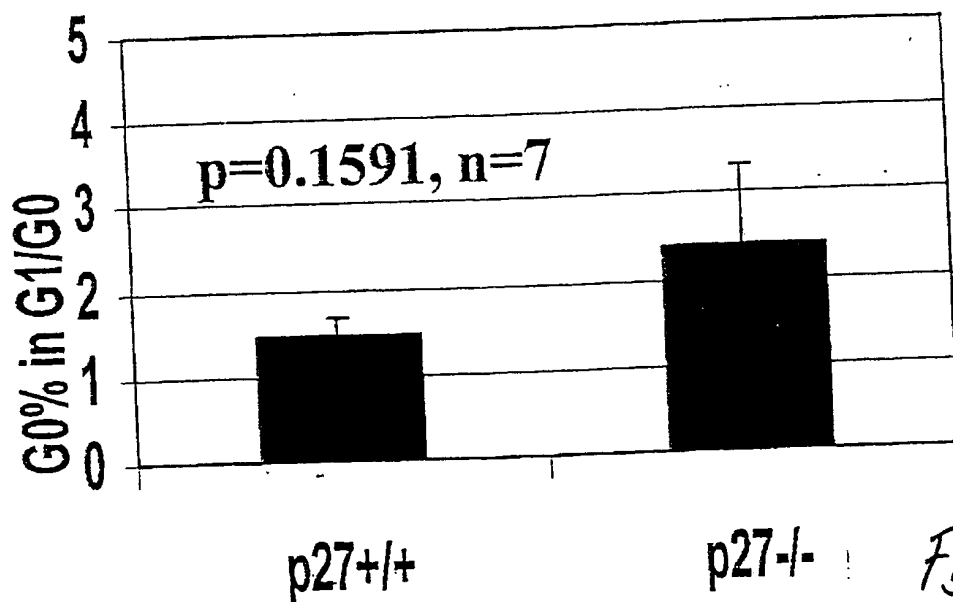


Fig. 7C  
Fig. 7B



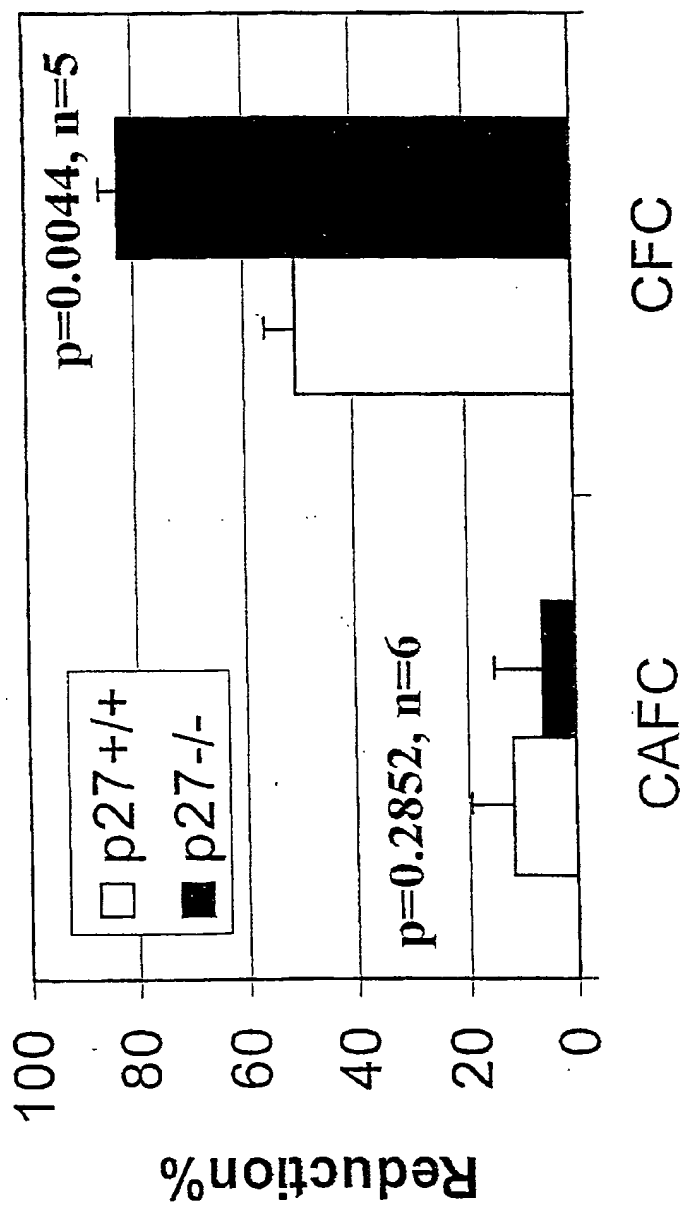
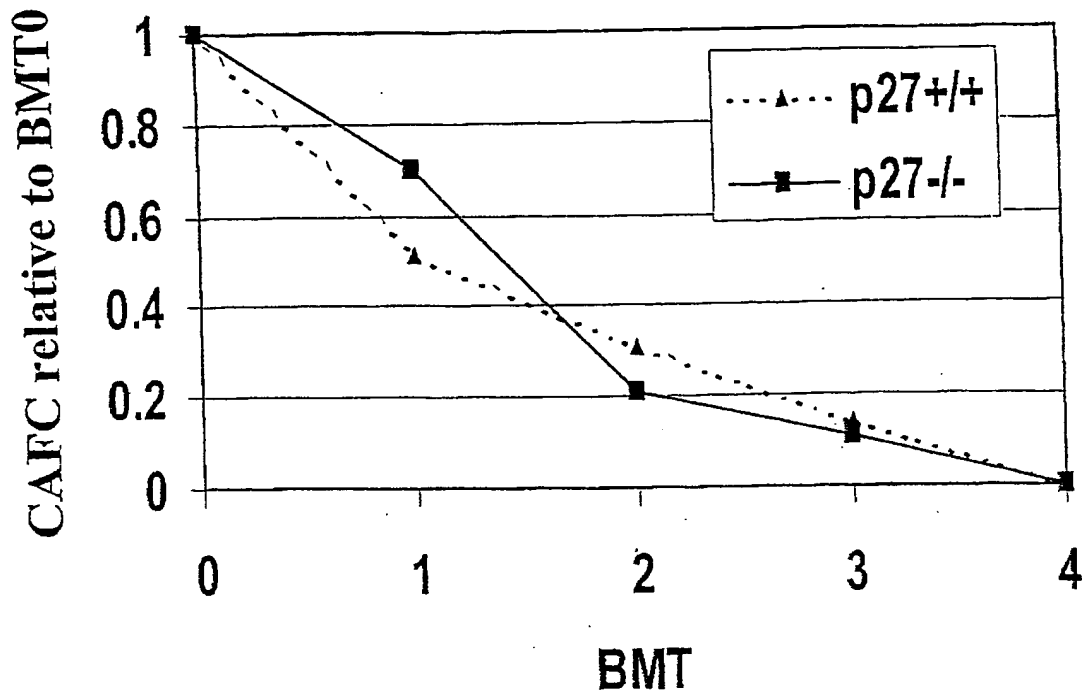


Figure 8

(a)



(b)

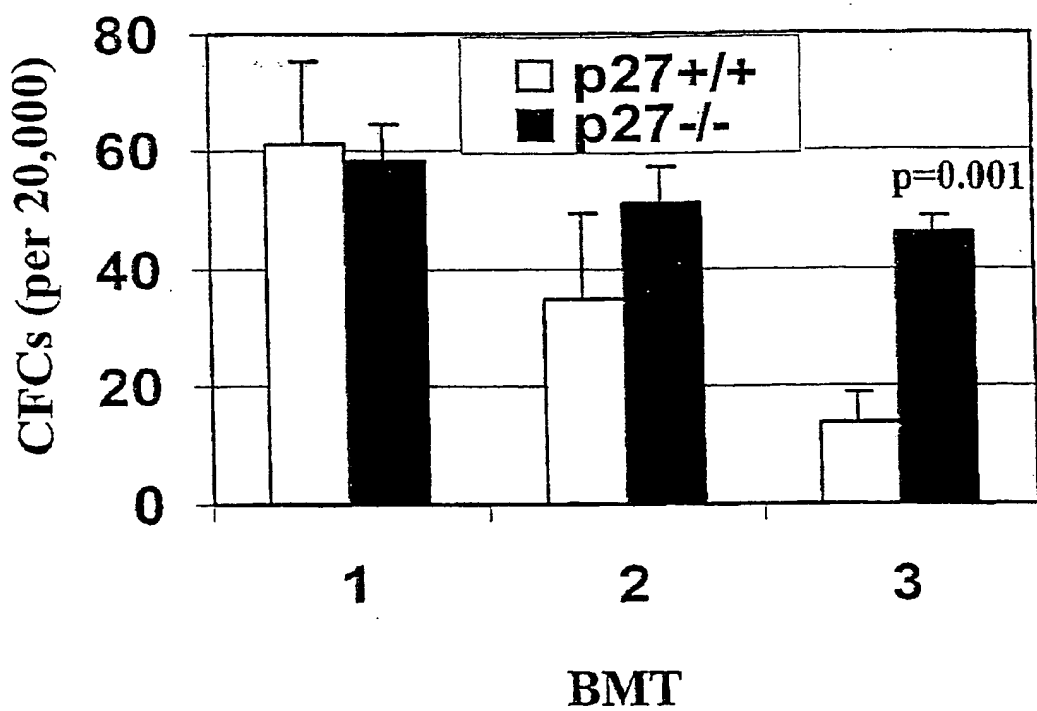


Figure 9

(c)

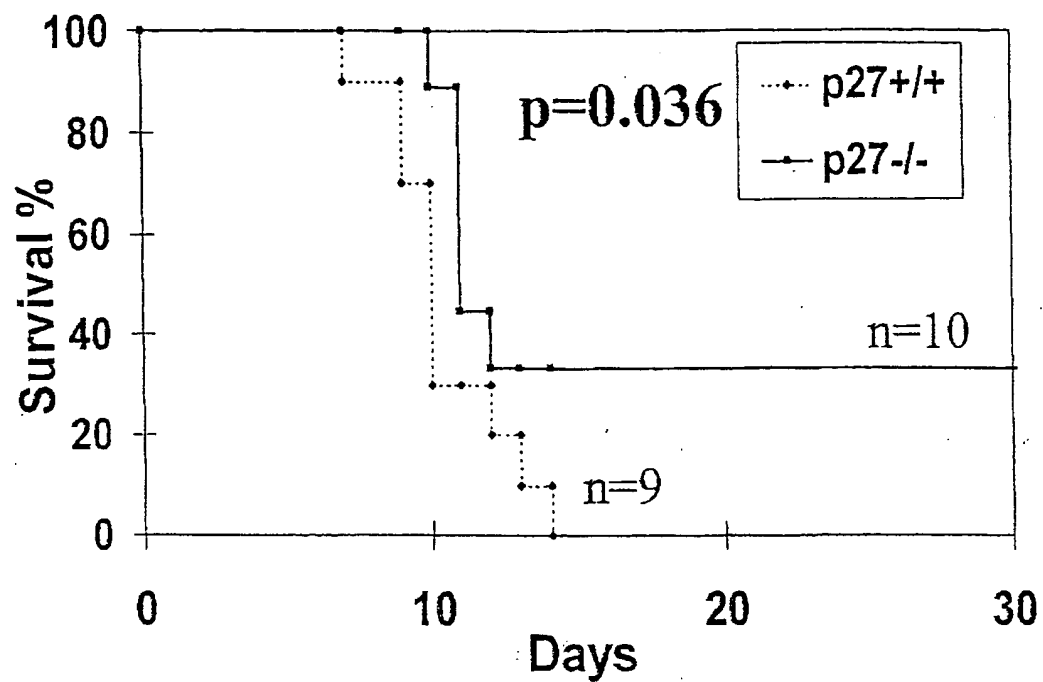


Figure 9C

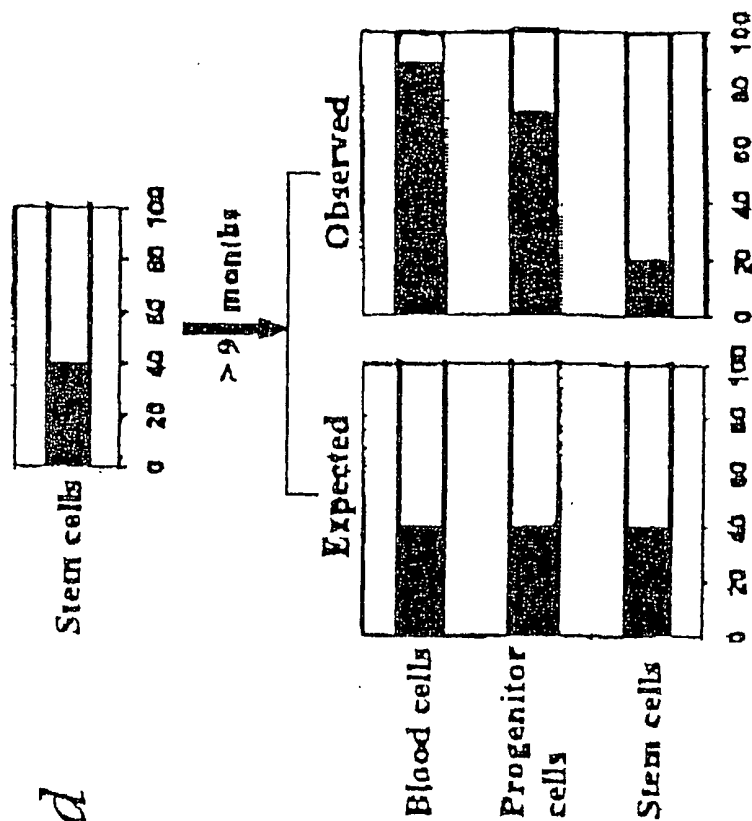
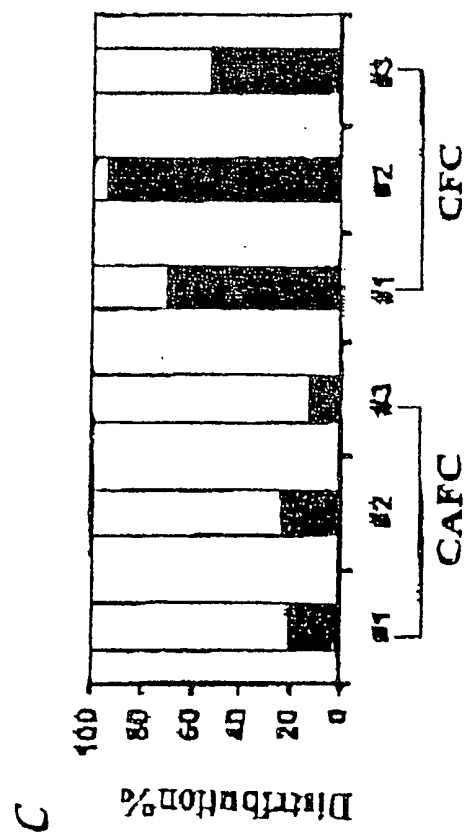
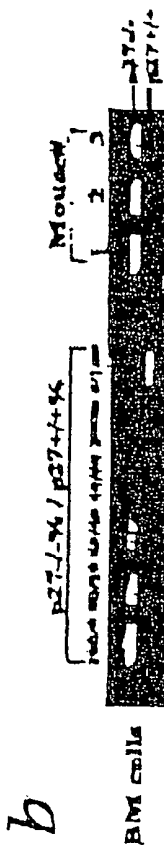
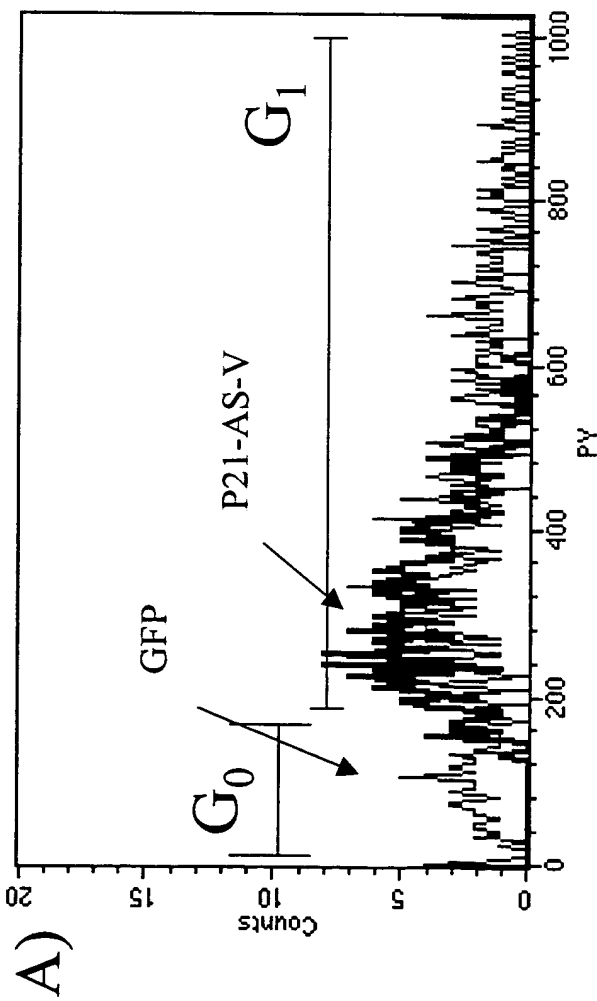


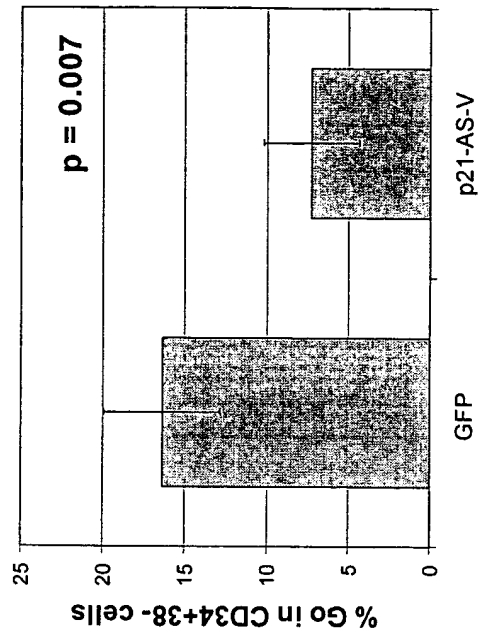
Fig. 10

# p21-antisense reduces the $G_0$ fraction of transduced CD34+ cord blood cells



B)

Percentage of  $G_0$  cells in the CD34+38- subpopulation of transduced CD34+ cord blood cells



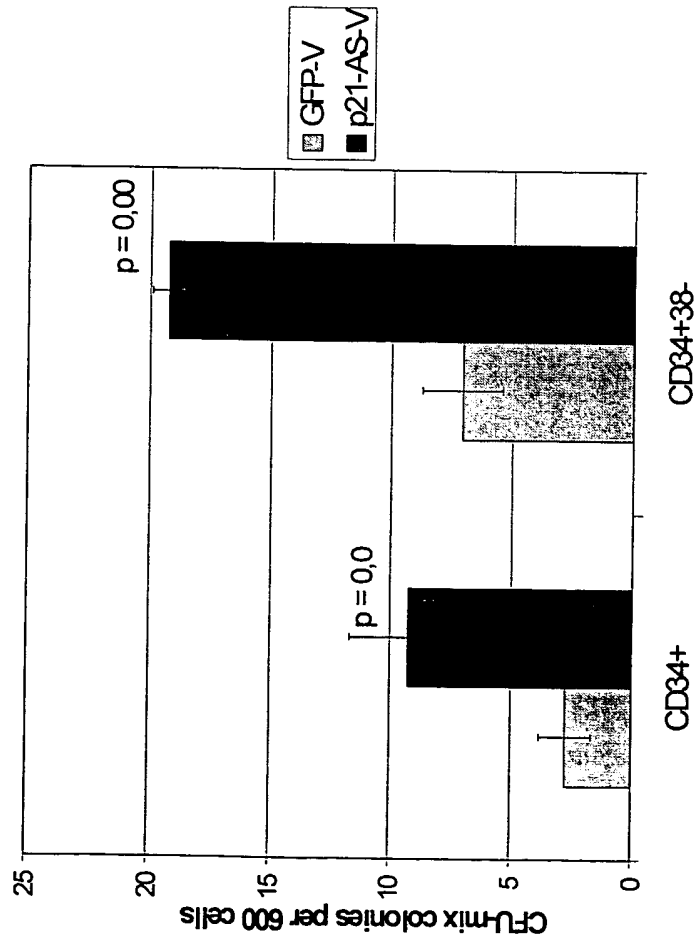
$N = 6$

Fig. 11

Fig. 12

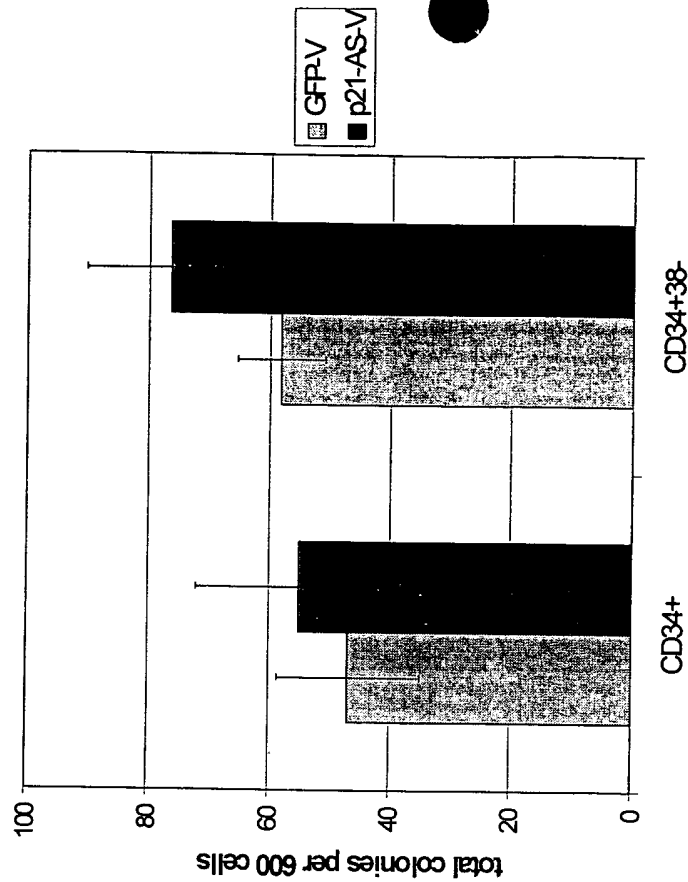
# Antisense-p21 increases primitive CFU-mix without altering total CFC in transduced CD34+ and CD34+38- cord blood cells

A) CFU-mix colonies of transduced progenitor cells



B)

total colony number of transduced progenitor cells



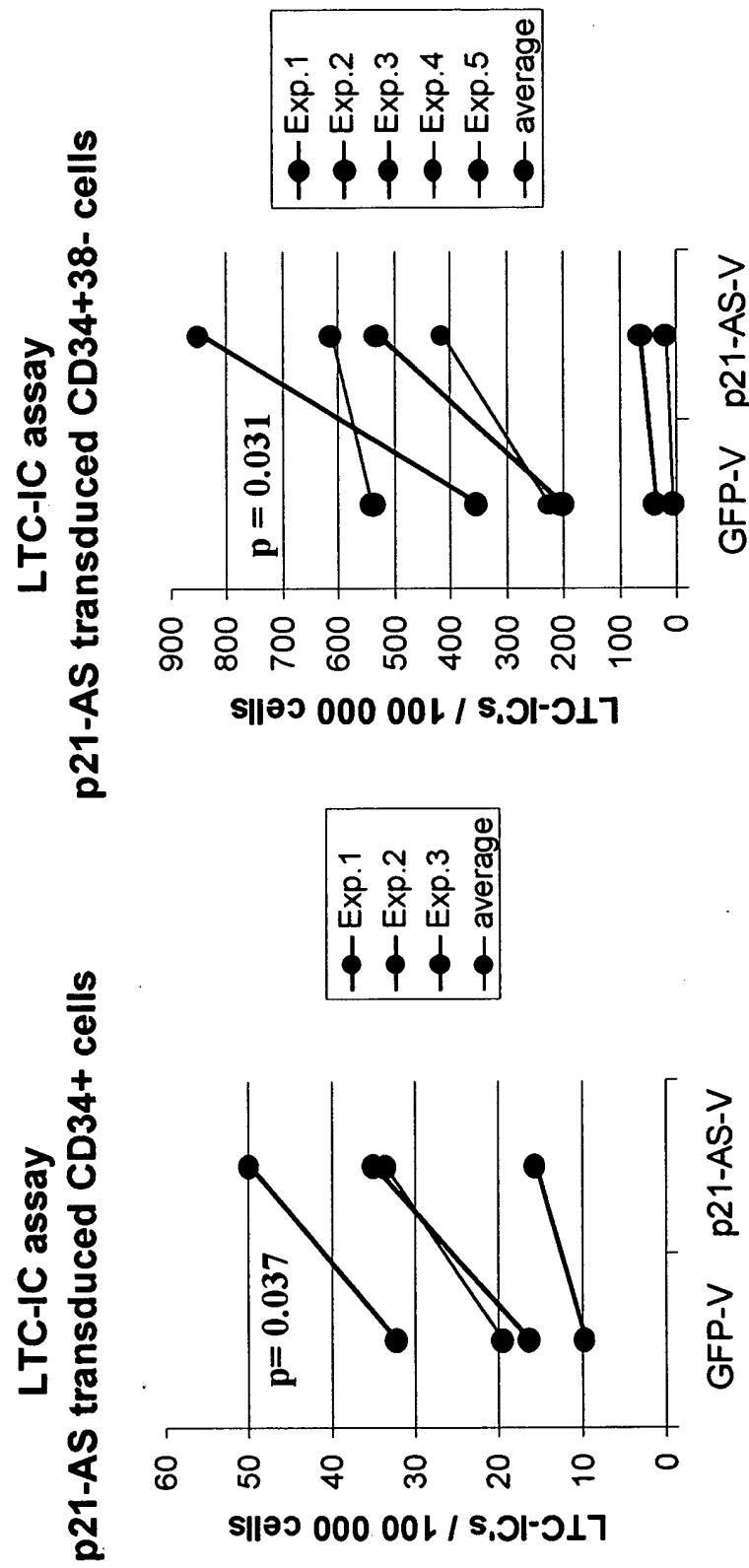


Fig. 14

# p21<sup>Cip1</sup> anti-sense enhances human CD34<sup>+</sup> cell engraftment of NOD/SCID mice

